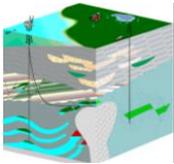




**LEMI-304 3-component
autonomous vector
magnetometer for sea floor
application**



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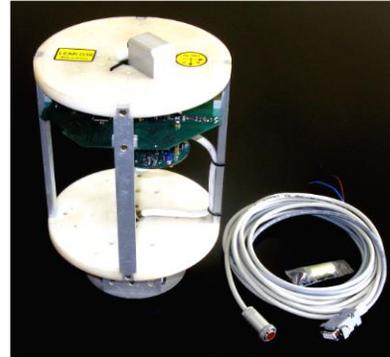
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LEMI-304



LEMI-304 Product picture

LEMI -304 sea floor vector magnetometer is produced on the base of flux gate sensor, all three components of which are assembled in one body. Minimal magnetism of components enable the instrument to be implemented as a monoblock construction where the electronic unit is placed close to the sensor. Automatic compensator provides convenient compensation of the initial magnetic field offset and reading of full value of the measured field. There is GPS timing and coordinates determination. In the absence of GPS signal the timing by internal clock provides high accuracy synchronization of data. The internal flash memory can provide long-term autonomous data storage. The instrument has also two-axes tilt angles measurement. Using the developed software it allows reducing the magnetometer data collected in randomly oriented coordinate system to the data in the geomagnetic coordinates.

Product features

- **High resolution**
- **Low noise**
- **Low temperature offset**
- **Tilt angles measurement**
- **Full automatic compensation**
- **Bluetooth interface**
- **Timing by internal clock**
- **Internal flash memory**
- **GPS timing**
- **The specifications can be changed at customer's request.**

Product specifications

Full measuring range:	±65000 nT
Resolution:	0.01 nT
Band pass:	DC-0.5 Hz
Noise level in the frequency band 0.03 – 0.3 Hz, rms:	<15 pT
Sample rate:	1 s
Digital output	USB(Bluetooth)
Sensor orthogonality error:	< 30 min of arc (< 2 min after calibration)
Temperature drift:	<0.2 nT/°C
Maximal operation depth:	depends on housing type
Operating temperature range:	0 ...+50 °C
Power consumption:	<0.8 W
Autonomy, max	16 days
Tiltmeter characteristic:	
Resolution:	0.01 degree
Dynamic range:	± 30 degree